Course Description Form					
Course Code and Name	CENG307 FILE ORGANIZATION				
Course Semester	5				
Catalog Content	Introduction, File Structures, Organization and Processing, Physical aspects of storage area, Sequential file development, decomposition/composition algorithms, Direct file processing techniques, Indexed file processing techniques, Multi-list File Organization, Introduction to Database Management Systems				
Textbook	Tharp, A. L. (2008). File organization and processing. John Wiley & Sons.				
Supplementary Textbooks	Folk, M. J. (2006). File structures: An object-oriented approach with C++. Pearson Education India.				
	Wiederhold, G. (1987). File organization for database design. McGraw-Hill College.				
Credit	4				
Prerequisites of the Course ( Attendance Requirements)	Prerequisites course: No  Co-requisites: Obligatory course attendance 70%				
Type of the Course	Compulsory				
Instruction Language	English				
Course Objectives	To teach File Structures, Organization and Processing To teach Physical aspects of storage area To teach Sequential file development To teach Decomposition/composition algorithms To teach Direct file processing techniques To teach Indexed file processing techniques To teach Multi-list File Organization To teach Introduction to Database Management Systems				
Course Learning Outcomes	Investigating the structure of files which is one of the fundamental concepts of computer science  Strengthening the conceptual understanding of computer science fundamentals				
<b>Instruction Methods</b>	The mode of delivery of this course is face to face.				

Weekly Schedule	<ol> <li>week: Introduction</li> <li>week: File Structures, Organization and Processing</li> <li>week: File Structures, Organization and Processing</li> <li>week: Physical aspects of storage area</li> <li>week: Decomposition/composition algorithms</li> <li>week: Decomposition/composition algorithms</li> <li>week: Decomposition/composition algorithms</li> <li>week: Direct file processing techniques</li> <li>week: Direct file processing techniques</li> <li>week: Indexed file processing techniques</li> <li>week: Indexed file processing techniques</li> <li>week: Multi-list File Organization</li> <li>week: Multi-list File Organization</li> <li>week: Introduction to Database Management Systems</li> </ol>						
Teaching and Learning Methods  (These are examples. Please fill which activities you use in the course)	Theoretical study per week: 3 Reading Designing and Applying Materials Midterm and Studying for Midterm Final and Studying for Final						
		Numbers	Total Weighting (%)				
	Midterm Exams	1	30				
	Assignment	2	20				
	Application	0	0				
Assessment Criteria	Projects	0	0				
	Practice	0	0				
	Quiz Percent of In-term	<del>     </del>	60				
	Studies (%)	UU					
	Percentage of Final Exam to Total Score (%)		40				
	Attendance		<u> </u>				

		Activity	Total Number of Weeks	Duratio (weekly hour)			P	Fot Peri Voi Loa	od rk
		kly Theoretical Course s	14	3			42		
	Weel	dy Tutorial Hours	0	0			0		
	Read	ing Tasks	14	2			28		
	Studi		0	0			0		
Workload	Material Design and Implementation		2	6			12		
	Repo	Report Preparing		0			0		
	Preparing a Presentation		0	0			0		
		Presentations		0			0		
	Midterm Exam and Preparation for Midterm Exam		1	8			8		
		Final Exam and 1 10 Preparation for Final Exam				10	0		
		r ( should nphasized)	0	0			0		
	Total	Workload					100	)	
	Total	Workload / 25					4		
	Cour	se Credit (ECTS)					4		
	No	Program Outcomes			1	2	3	4	5
Contribution Level Between Course Learning Outcomes and Program Outcomes	1	Sufficient knowledge on mathematics, science and computer engineering; ability to apply theoretical and practical knowledge in these areas to model and solve engineering problems					X		
	2	Ability to identify, de solve complex engine ability to choose and analysis and modellin purposes	efine, formulate and eering problems; apply appropriate				X		
	3	Ability to design a co process, device, softw product under realisti circumstances to mee requirements; ability design techniques for	ware, algorithm, or tic constraints and eet certain y to apply modern				X		
	4	Ability to choose, device techniques and tools a engineering application of the effectively use computer that the effectively use computer that the effectively use computer that the effective is the effective that the effective is the effective in the effective in the effective is the effective in the effective	necessary for ons; ability t	r o				X	
	5	Ability to design and or experiments to solve problems, collect and evaluate and analyze	ve engineeri interpret da	ng ta to				X	
	6	solutions Ability to work effect intradisciplinary and teams or individually	•	nary		X			

	7	Ability to efficiently prepare, evaluate and		X		
		interpret reports				
	8	Ability to make presentations and conduct		X		
		effective verbal and written				
		communication in Turkish and English				
	9	Awareness of the necessity of lifelong				X
		learning; ability to access information,				
		follow scientific and technological				
		developments; ability to perpetually renew				
		oneself				
	10	Awareness of professional and ethical		X		
		responsibility, ability to act in accordance				
		with ethical principles				
	11	Ability to apply knowledge on project		$\Box$	X	
		management, risk management and				
		change management			!	
	12	•	X			
	12	innovation, ability to design and build	_			
		sustainable systems				
	13	-	X	H		
		solutions to contemporary issues				
		considering the effects of engineering				
		applications on health, environment and				
		security				
	14	Awareness of the legal consequences of	X	H		
		engineering solutions				
	15		X			
		development process and documentation				
		rules				
	16	Knowledge on standards used in		X		
		engineering applications				
	17	1	X			
		security, information security and privacy				
	Asso	oc. Prof. Dr. Hacer KARACAN				
he Course's Lecturer(s) and Contact		acan@gazi.edu.tr				
nformation		-				